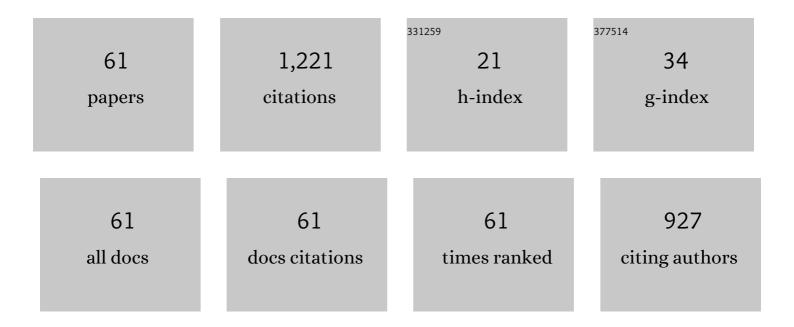
Giorgio Pia

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1964779/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An intermingled fractal units model to evaluate pore size distribution influence on thermal conductivity values in porous materials. Applied Thermal Engineering, 2014, 65, 330-336. | 3.0 | 93 |
| 2 | An intermingled fractal units model and method to predict permeability in porous rock. International Journal of Engineering Science, 2014, 75, 31-39. | 2.7 | 73 |
| 3 | A geometrical fractal model for the porosity and thermal conductivity of insulating concrete. Construction and Building Materials, 2013, 44, 551-556. | 3.2 | 72 |
| 4 | A geometrical fractal model for the porosity and permeability of hydraulic cement pastes. Construction and Building Materials, 2010, 24, 1843-1847. | 3.2 | 67 |
| 5 | Porosity and pore size distribution influence on thermal conductivity of yttria-stabilized zirconia: Experimental findings and model predictions. Ceramics International, 2016, 42, 5802-5809. | 2.3 | 52 |
| 6 | Porous ceramic materials by pore-forming agent method: An intermingled fractal units analysis and procedure to predict thermal conductivity. Ceramics International, 2015, 41, 6350-6357. | 2.3 | 50 |
| 7 | A fractal model of the porous microstructure of earth-based materials. Construction and Building Materials, 2008, 22, 1607-1613. | 3.2 | 48 |
| 8 | Intermingled fractal units model and electrical equivalence fractal approach for prediction of thermal conductivity of porous materials. Applied Thermal Engineering, 2013, 61, 186-192. | 3.0 | 46 |
| 9 | On the elastic deformation properties of porous ceramic materials obtained by pore-forming agent method. Ceramics International, 2015, 41, 11097-11105. | 2.3 | 45 |
| 10 | Predicting capillary absorption of porous stones by a procedure based on anintermingled fractal units model. International Journal of Engineering Science, 2014, 82, 196-204. | 2.7 | 41 |
| 11 | Coarsening of nanoporous Au: Relationship between structure and mechanical properties. Acta Materialia, 2015, 99, 29-38. | 3.8 | 39 |
| 12 | Fractal modelling of medium–high porosity SiC ceramics. Journal of the European Ceramic Society, 2008, 28, 2809-2814. | 2.8 | 37 |
| 13 | Nanoporous Au: Statistical analysis of morphological features and evaluation of their influence on the elastic deformation behavior by phenomenological modeling. Acta Materialia, 2015, 85, 250-260. | 3.8 | 37 |
| 14 | Case studies on the influence of microstructure voids on thermal conductivity in fractal porous media. Case Studies in Thermal Engineering, 2014, 2, 8-13. | 2.8 | 32 |
| 15 | On the elastic deformation behavior of nanoporous metal foams. Scripta Materialia, 2013, 69, 781-784. | 2.6 | 31 |
| 16 | Pore size distribution and porosity influence on Sorptivity of ceramic tiles: From experimental data to fractal modelling. Ceramics International, 2016, 42, 9583-9590. | 2.3 | 30 |
| 17 | Surface wear resistance of chemically or thermally stabilized earth-based materials. Materials and Structures/Materiaux Et Constructions, 2008, 41, 751-758. | 1.3 | 27 |
| 18 | Fractal and multifractal analysis of fracture surfaces caused by hydrogen embrittlement in high-Mn twinning/transformation-induced plasticity steels. Applied Surface Science, 2019, 470, 870-881. | 3.1 | 25 |

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|----|--|-----|-----------|
| 19 | Fluid flow in complex porous media: Experimental data and IFU model predictions for water vapour permeability. Journal of Natural Gas Science and Engineering, 2016, 35, 283-290. | 2.1 | 24 |
| 20 | High porous yttria-stabilized zirconia with aligned pore channels: Morphology directionality influence on heat transfer. Ceramics International, 2016, 42, 11674-11681. | 2.3 | 23 |
| 21 | Gyroidal structures as approximants to nanoporous metal foams: clues from mechanical properties. Journal of Materials Science, 2017, 52, 1106-1122. | 1.7 | 22 |
| 22 | Thermal conductivity of porous stones treated with UV light-cured hybrid organic–inorganic methacrylic-based coating. Experimental and fractal modeling procedure. Progress in Organic Coatings, 2016, 94, 105-115. | 1.9 | 21 |
| 23 | Grain boundary design based on fractal theory to improve intergranular corrosion resistance of TWIP steels. Materials and Design, 2020, 185, 108253. | 3.3 | 21 |
| 24 | Nanoporous Au foams: Variation of effective Young's modulus with ligament size. Scripta Materialia, 2018, 144, 22-26. | 2.6 | 20 |
| 25 | Ag surface segregation in nanoporous Au catalysts during CO oxidation. Scientific Reports, 2018, 8, 15208. | 1.6 | 16 |
| 26 | A fuzzy model for classifying mechanical properties of vesicular basalt used in prehistoric buildings. Materials Characterization, 2008, 59, 606-612. | 1.9 | 15 |
| 27 | Kinetics of nanoporous Au formation by chemical dealloying. Scripta Materialia, 2014, 76, 57-60. | 2.6 | 15 |
| 28 | Coupling of mechanical deformation and reaction in mechanochemical transformations. Physical Chemistry Chemical Physics, 2021, 23, 229-245. | 1.3 | 15 |
| 29 | Statistical study on the effects of heterogeneous deformation and grain boundary character on hydrogen-induced crack initiation and propagation in twining-induced plasticity steels. Corrosion Science, 2021, 192, 109796. | 3.0 | 15 |
| 30 | Thermal properties of porous stones in cultural heritage: Experimental findings and predictions using an intermingled fractal units model. Energy and Buildings, 2016, 118, 232-239. | 3.1 | 14 |
| 31 | Heat transfer in high porous alumina: Experimental data interpretation by different modelling approaches. Ceramics International, 2017, 43, 9184-9190. | 2.3 | 13 |
| 32 | Coating's influence on water vapour permeability of porous stones typically used in cultural heritage of Mediterranean area: Experimental tests and model controlling procedure. Progress in Organic Coatings, 2017, 102, 239-246. | 1.9 | 12 |
| 33 | Thermally and catalytically induced coarsening of nanoporous Au. Materials Letters, 2016, 183, 114-116. | 1.3 | 11 |
| 34 | Mechanical Properties of Nanoporous Au: From Empirical Evidence to Phenomenological Modeling. Metals, 2015, 5, 1665-1694. | 1.0 | 10 |
| 35 | Fabrication of Nanoporous Al by Vapor-Phase Dealloying: Morphology Features, Mechanical Properties and Model Predictions. Applied Sciences (Switzerland), 2021, 11, 6639. | 1.3 | 10 |
| 36 | Bending strength of porous ceramics tiles: Bounds and estimates of effective properties of an Intermingled Fractal Units' model. Ceramics International, 2018, 44, 10241-10248. | 2.3 | 9 |

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|----|---|-----|-----------|
| 37 | Water Absorption Properties of Cement Pastes: Experimental and Modelling Inspections. Advances in Materials Science and Engineering, 2018, 2018, 1-9. | 1.0 | 9 |
| 38 | A phenomenological approach to yield strength in nanoporous metal foams. Scripta Materialia, 2015, 103, 26-29. | 2.6 | 8 |
| 39 | Surface stresses and Young's modulus in nanoporous Au foams. Scripta Materialia, 2014, 84-85, 55-58. | 2.6 | 7 |
| 40 | Mechanical behavior of nanoporous Au with fine ligaments. Chemical Physics Letters, 2015, 635, 35-39. | 1.2 | 7 |
| 41 | Thermal behaviour of clay ceramics obtained by Spark Plasma Sintering: Is fractal geometry a new possible road to design porous structures?. Ceramics International, 2018, 44, 21710-21716. | 2.3 | 6 |
| 42 | From nature geometry to material design: Advanced fractal nature analysis for predicting experimental elastic properties. Ceramics International, 2020, 46, 23947-23955. | 2.3 | 6 |
| 43 | Microscopic kinetic information from Ag oxalate mechanochemistry in ball drop experiments. Materials Letters, 2020, 267, 127525. | 1.3 | 5 |
| 44 | Pore Size Distribution Influence on Suction Properties of Calcareous Stones in Cultural Heritage: Experimental Data and Model Predictions. Advances in Materials Science and Engineering, 2016, 2016, 1-10. | 1.0 | 4 |
| 45 | Hardening of nanoporous Au foams induced by surface chemistry. Materials Letters, 2017, 196, 332-334. | 1.3 | 4 |
| 46 | Microstructural evolution in porous ceramics subjected to freezing-thawing cycles: Modelling experimental outcomes. Ceramics International, 2018, 44, 16992-16998. | 2.3 | 4 |
| 47 | Grain size reduction in Cu powders subjected to ball milling and ball drop experiments. Materials Letters, 2018, 232, 33-35. | 1.3 | 4 |
| 48 | Porosity effects on water vapour permeability in earthen materials: Experimental evidence and modelling description. Journal of Building Engineering, 2020, 27, 100987. | 1.6 | 4 |
| 49 | Differential damage in the semi-confined Munazio Ireneo cubicle in Cagliari (Sardinia): a correlation between damage and microclimate. Environmental Earth Sciences, 2017, 76, 1. | 1.3 | 3 |
| 50 | Advances in Modelling of Heat and Mass Transfer in Porous Materials. Advances in Materials Science and Engineering, 2019, 2019, 1-2. | 1.0 | 3 |
| 51 | Morphology influence on elastic deformation behaviour of high porous ceramics. Experimental and phenomenological model predictions. Ceramics International, 2021, 47, 23368-23375. | 2.3 | 3 |
| 52 | Weathering of earth-painted surfaces: Environmental monitoring and artificial aging. Construction and Building Materials, 2022, 344, 128193. | 3.2 | 3 |
| 53 | Application of a Novel Method for a Simulation of Conductivity of a Building Material in a Climatic Chamber. Energy Procedia, 2015, 81, 995-1004. | 1.8 | 2 |
| 54 | A mapping approach to pattern formation in the early stages of mechanical alloying. Philosophical Magazine Letters, 2019, 99, 192-198. | 0.5 | 2 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Coarsening of nanoporous Au during catalytic CO oxidation. Materials Letters, 2019, 253, 159-161. | 1.3 | 2 |
| 56 | Solid Particle Erosion of a Limestone Target Surface under Controlled Conditions. Advances in Materials Science and Engineering, 2020, 2020, 1-8. | 1.0 | 2 |
| 57 | Milling Dynamics and Propagation of Mechanically Activated Self-Sustaining Reactions. Advances in Materials Science and Engineering, 2020, 2020, 1-10. | 1.0 | 1 |
| 58 | Stable CsPbBr3 Nanocrystals—Decorated Nanoporous Gold for Optoelectronic Applications. Crystals, 2022, 12, 863. | 1.0 | 1 |
| 59 | Stiffening of nanoporous Au induced by water physisorption. Materials Letters, 2018, 220, 116-118. | 1.3 | 0 |
| 60 | Hardening of Nanoporous Au Induced by Exposure to Different Gaseous Environments. Materials, 2022, 15, 2718. | 1.3 | 0 |
| 61 | Estimation of Nanoporous Au Young's Modulus from Serial Block Face-SEM 3D-Characterisation. Materials, 2022, 15, 3644. | 1.3 | 0 |